

Global IGBT Power Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global IGBT Power Module market size is expected to reach \$ 15908 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032). An IGBT Power Module is a power semiconductor component used in power electronic devices in several industries as they have high-power efficiency, high blocking voltage, and ability to work in low power. An IGBT Power Module is formed by arranging several IGBTs in parallel in a single casing. An IGBT-Based Power Module functions as a switch and can be used to switch electrical power on and off extremely fast and with high energy efficiency. The IGBT power module is becoming the preferred device for high power applications due to its ability to enhance switching, temperature, weight and cost performance.

The key manufacturers of global IGBT module include Infineon, Mitsubishi Electric, Fuji Electric, CRRC Times Electric, BYD Semiconductor, Semikron Danfoss, StarPower Semiconductor, onsemi, Denso and Silan Microelectronics, among others; in 2025, the world's top 10 IGBT module producers will account for approximately 85% of the total market share.

From a global development and application standpoint, IGBT modules are a mature, scale-driven platform with continuous incremental upgrades, still forming the backbone of medium-to-high-power conversion across motor control/drives, UPS, renewable-energy inverters, railway traction, and broader power transmission equipment. A key high-end branch is press-pack IGBT technology used in grid-class converters: Hitachi Energy's StakPak family is explicitly designed for stacked high-power assemblies (uniform chip pressure) and is used in HVDC Light projects, including offshore wind transmission systems. Along the industry chain, upstream inputs are largely mature silicon and power-device process ecosystems, while module packaging materials and thermal-mechanical reliability are major differentiators midstream—especially ceramic-metal substrates such as DBC/DCB (copper bonded to ceramic for heat spreading and

isolation) and AMB substrates for power modules.

Looking forward, the technology trajectory is dominated by higher power density, lower stray inductance, better thermal cycling lifetime, and easier platform scalability (including designs optimized for high-power renewables/drives and multi-level converter architectures). High-voltage product roadmaps also continue to advance for traction and large industrial systems?e.g., Mitsubishi Electric?s announced XB Series HVIGBT modules targeting more efficient, reliable inverter systems in railcars and large industrial equipment. Demand drivers remain tied to electrification and decarbonisation: strong EV volumes sustain large inverter markets (even as SiC penetration grows), and record renewable capacity additions expand the installed base of wind/solar/storage power converters. Competitively, the landscape is led by diversified IDMs and module specialists with deep application support and packaging know-how?exemplified by broad portfolio leaders (e.g., Infineon across multiple voltage classes), high-voltage traction-focused vendors (e.g., Mitsubishi Electric), major module houses (e.g., Semikron Danfoss), and grid/HVDC press-pack leaders (e.g., Hitachi Energy); differentiation increasingly concentrates on device generation + package/substrate system + quality/reliability qualification + scalable manufacturing rather than only chip-level performance.

This report studies the global IGBT Power Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for IGBT Power Module and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of IGBT Power Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global IGBT Power Module total production and demand, 2021-2032, (K Units)

Global IGBT Power Module total production value, 2021-2032, (USD Million)

Global IGBT Power Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global IGBT Power Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: IGBT Power Module domestic production, consumption, key domestic manufacturers and share

Global IGBT Power Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global IGBT Power Module production by Voltage, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global IGBT Power Module production by Application, production, value, CAGR,

2021-2032, (USD Million) & (K Units)

This report profiles key players in the global IGBT Power Module market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon, Mitsubishi Electric (Vincotech), Fuji Electric, Semikron Danfoss, Hitachi Power Semiconductor Device, Bosch, onsemi, Toshiba, Littelfuse (IXYS), Microchip (Microsemi), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World IGBT Power Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Voltage, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global IGBT Power Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IGBT Power Module Market, Segmentation by Voltage:

LV IGBT Modules

MV IGBT Modules

HV IGBT Modules

Global IGBT Power Module Market, Segmentation by Configuration:

6-in-1 (Six Pack) IGBT Modules

2-in-1 (Half Bridge) IGBT Modules

Full Bridge IGBT Modules

Press Pack IGBTs

Others

Global IGBT Power Module Market, Segmentation by Application:

Automotive & EV/HEV

Industrial Control

Consumer Appliances

Wind power, PV, Energy Storage

Traction

Military & Avionics

Others

Companies Profiled:

Infineon

Mitsubishi Electric (Vincotech)

Fuji Electric

Semikron Danfoss

Hitachi Power Semiconductor Device

Bosch

onsemi

Toshiba

Littelfuse (IXYS)

Microchip (Microsemi)

STMicroelectronics

Vishay

Denso

SanRex Corporation

Cisoid

StarPower Semiconductor

BYD

Zhuzhou CRRRC Times Electric

Hangzhou Silan Microelectronics

MacMic Science & Technology

China Resources Microelectronics Limited

Yangzhou Yangjie Electronic Technology

EcoSemitek

Key Questions Answered:

1. How big is the global IGBT Power Module market?
2. What is the demand of the global IGBT Power Module market?
3. What is the year over year growth of the global IGBT Power Module market?
4. What is the production and production value of the global IGBT Power Module market?
5. Who are the key producers in the global IGBT Power Module market?
6. What are the growth factors driving the market demand?

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